

**CLAIMS**

What is claimed is:

1. A device, comprising:

a circulator to receive a light beam at an input port;

5 a variable delay line coupled to a processing port of the circulator, the circulator to propagate the light beam from the input port to the variable delay line; and

a plurality of adjustable gratings, each adjustable grating movable between a corresponding first position which produces Bragg reflection in the variable delay line and a second position which does not produce Bragg reflection in the variable delay line, the circulator receiving Bragg reflected signals at the  
10 processing port and outputting the Bragg reflected signals at an output port of the circulator.